



# OFFICE OF PRIOR ART CITED BY APPLICANT

(PTO-1449)

ATTY. DOCKET NO.  
**UMBC-004**

APPLN. SERIAL NO.  
**09/928,662**

APPLICANT(S)  
**Govind RAO**

FILING DATE  
**August 14, 2001**

GROUP  
**1744 1651**

## U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	*PATENT NO.	*ISSUE DATE	*INVENTOR NAME	CLASS	SUBCLASS	FILING DATE

## U.S. PATENT APPLICATION PUBLICATIONS

	*PATENT APPLN. PUB. NO.	*PUB. DATE	*APPLICANT	CLASS	SUBCLASS	

## U.S. PATENT APPLICATIONS

	*APPLN. NO.	*FILING DATE	*INVENTOR	CLASS	SUBCLASS	

## FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)

	Chang et al., "Steam-Sterilizable, Fluorescence Lifetime-Based Sensing Film for Dissolved Carbon Dioxide", Biotechnol Prog, March-April, 14 (2):326-331 (1998)
	Bylund et al., "Influence of Scale-Up on the Quality of Recombinant Human Growth Hormone", Biotechnol Bioeng, 69:119-128 (2000)
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	S.B. Bambot et al., "Lifetime-based optical sensing of pH using resonance energy transfer in sol-gel films", Sensors and Actuators B 22 (1994) pages 181-188
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EXAMINER

DATE CONSIDERED

07/30/2003

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SHEET 2 OF 2

<b>LIST OF PRIOR ART CITED BY APPLICANT</b>  <b>(PTO-1449)</b>				ATTY. DOCKET NO. <b>UMBC-004</b>		APPLN. SERIAL NO. <b>09/928,662</b>	
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J	Isabelle Walther et al., "Performance of a miniaturized bioreactor in space flight: microtechnology at the service of space biology", <i>Enz. Microb. Technol.</i> , Vol. 27, pages 778-783.						
J	Gregor Liebsch et al., "Luminescence Lifetime Imaging of Oxygen, pH, and Carbon Dioxide Distribution Using Optical Sensors", <i>Applied Spectroscopy</i> Volume 54, pages 548-559 (2000).						
J	Yordan Kostov et al., "Low-cost device for ratiometric fluorescence measurements", <i>Journal of the American Institute of Physics</i> , pages 4466-4470 (1999).						
J	Y. Kostov et al., "Solid State Luminescence Phase-Shift Oxygen Sensor for Biotechnology", <i>Chemical and Biochemical Engineering Quarterly</i> , pages 201-205 (1998).						
J	Yordan Kostov et al., "Unique Oxygen Analyzer Combining a Dual Emission Probe and a Low-Cost Solid-State Ratiometric Fluorometer", <i>Applied Spectroscopy</i> , Volume 54, pages 864-868 (2000).						
J	Yordan Kostov et al., "All Solid-State GFP Sensor", <i>Biotechnology and Bioengineering</i> , Vol. 70, No. 4, pages 473-477 (Nov. 20, 2000).						
J	Zhong Xu et al., "A novel fiber-optic pH sensor incorporating carboxy SNAFL-2 and Fluorescent wavelength-ratiometric detection", pages 9-15.						
J	Lisa Randers-Eichhorn et al., "On-Line Green Fluorescent Protein Sensor with LED Excitation", <i>Biotechnology and Bioengineering</i> , Vol. 55, No. 6, pages 921-926 (Sept. 20, 1997).						
J	Shabbir B. Bambot et al., "Phase Fluorometric Sterilizable Optical Oxygen Sensor", <i>Biotechnology and Bioengineering</i> , Vol. 43, pages 1139-1145 (1994).						
EXAMINER	K-C-S			DATE CONSIDERED 07/30/2003			

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